The Greatest Mystery in the Whole World May Be Solved By Science

ORIGIN OF LIFE MAY BE FOUND TO BE

life on the terrestrial globe will be interested to know that in a recent Scientific American appears a most interesting review of a new book-Prof. Henry Fairfield Osorn's latest published work-entitled "The Origin and Evolution of Life."

Thanks to the courtesy of Munn & Co., publishers of the Scientific Amer can, this newspaper is able to reprosuce herewith excerpts from the reelewer's article on Prof. Osborn's fork, together with one of the illustrations which adorn the book, as "As the author is a thoroughgoing spolutionist," comments the reviewer at the outset, "no arguments are of-fared for the truth of evolution, now no longer ranked as a theory but adfittee as an inevitable patural law." Discussing the various theories of the probable nature and origin of life, the author finds the vitalistic and

life, the author finds the vitalistic and supernatural interpretations, on the spe hand, and the mechanistic and materialistic interpretations, on the other, to be atike unsatisfying. Believing with Emerson that the laws of nature are the laws of God and are as binding as the Decalogue, he refuses to interpret life as an arbitrary litterruption of those laws, a supersatural interposition by an externally satural interposition by an externally atural interposition by an externally satural interposition by an exemplify results power, or as caused by an in-iernal perfecting agency other than the known and unknown physiochem-teal agencies; nor does he admit an explanation of life as merely a ques-tion of matter or mechanism.

"Energistic" Idea.

In contradistinction to the vitalde, mechanistic and materialistic chools of thought we might coin ord and describe the concept of life worn and describe the concept of life there developed as 'energistle.' The creative power of energy is well haven. In physics energy controls the transfer and form, in physiclogy function controls the organ; in animal mercanics motion controls and, in a page, treates the form of muscles and bones.

i bonne.

I every instance some kind of or energy precedes some kind bring rendering it probable that gy also precedes and controls the gitten of life. It appears reasonte to suppose that when life appear on the earth some forms of reles pre-existing in the cosmose brought into relation with the e brought into relation with the wergy properties of the chemical ele-sents also existing. "It is a matter of pure speculation

whether there is a peculiar vital en-ingy or not. In the author's opinion there is probably no peculiar vital mergy, because the researches and experiments of Loeb and other bio-themists have thus far revealed no middened for the

may ultimately be explained through the threefold phonomena of action, reaction, and interaction. In the domain of physiciogy the laws of physics governing action and reaction and the transformation and degradation of energy are known to be of prime importance in effecting that



Here we have a battle scene in the prehistoric ages, a reproduction from "The Origin and Evolution of Life," by Prof. H. F. Osborn.

Twelfth and G. Streets.

MUSICAL SPECIALS

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capture of energies so essential to dation of energy, corresponding with

to a more limited amount of power were discovered through observations of larger maises of matter they are believed to apply equally they are believed to apply equally to such motions at those of the mans and calling for their deportations) and the particles flying off in radiant energy as phosphorescense. Such movements of infinitesimal particles underlie all the physiochemical laws of action and reaction which addressed to Lieut. Gen. S. B. M. lost on the American people. A bill for sure other words.

"While actions and reactions, as is well known, refer chiefly to what is well known, rifer chiefly to what is going on between parts of an organism which are in chemical or physical contact, interactions refer to what is going on between parts which are connected with each other by other parts, and cannot be analyzed by dynamical principles alone.

without a knowledge of the con-necting structure.

"As stated by M. I. Pupin, action and reaction are chiefly simultane-ous, whereas interaction connects actions and reactions which are not simultaneous. To use a simple illus-tration: When one pulls at the reins the horse feels it a little later than the moment at which the reins are pulled—there is interaction between the kand and the horse's mouth, the

reins being the interacting part.

"Again, in interaction the cause may be very feeble, yet the potential or stored energy liberated at a distant point may be tremendous. An interacting nerve-impulse starting from a microscopic cell in the brain may give rise to a powerful muscular may give rise to a powerful muscular action and reaction at some distant point. An interacting chemical im-pulse may energine or depress whole groups or organs in animals and plants. Depyright, 1917, Munn & Co., St. American, by Otta F, Wood).

Flowers For Thanksgiving. Consult Gude about choice flowers d artistic floral decorations. 1214 F. Advi.

LOCAL MENTION.

prices are the lowest when qual-f work is considered, of any in ity. Dr. Vaughan, 307 7th St. N.W.

These lizard-like creatures, called tyrannosauri, are carnivorous mechanisms, interpreted by the author as "offensive energy complex."

MILITARY TRAINING

have been observed to occur within Young, U. S. A., retired, head of the universal training of American youths

Principle of Interaction.

The most striking feature of the author's concept comes in at this point; namely, that the co-ordination and harmonizing of all the several parts of a living plant or animal is brought about through the evolution of a physiocochemical principle termed "interaction."

National Association for Universal must be enacted in the coming session of Military Training and commander in the records that 60 per cent of our boys are physically unit for military services. Universal training would materially remedy this condition. Your organisation, I hope, will bend all its energies to achieve the successful enactment by trained and equipped military should work for it."



CITY'S YOUNGEST LICENSED AUTO

Clarence passes my corner half a sen times a day and I have never

He Drives a Car



CLARENCE E GEIGER

or without clash with the traffic squad. Clarence, who is a stodent at the Henry Cook School, in Seventation to regulate, but if all drivers were as it careful as the young boy we could do away with the signs. Several months ago I got the idea that Clarence was driving without a permit and I decided to investigate. I called to him and asked for his driver's Headed to him and asked for his care and showed to me. It was made out to Clarence E. Geigar and Coremos in the city—Fourteenth and Gotteene, Washington would seen be without motor that an entire the highest world seen at Elighteenth street and Columbia road new for two years," said Creamer today, "and in all that time I have never seen amore careful driver than that lad. When I fart was transferred from Fourteenth and Gotteenet seed the Henry Cook School and this corner traffic is much easier in the great and the signs, Several months ago I got the idea that Clarence was driving without a permit and I decided to investigate. I called to him and asked for his driver's Headed to him and asked for his driver's Headed to him and asked for his care and out of the pocket on the door of his care and showed to me. It was made out to Clarence says he is often held up by traffic and blevele policemen, who demand his eard. "When I show it to them, they declare that I am driving on my father's permit, but it do so more careful driver than that lad.

When I first was transferred from Fourteenth and Gotteeneth should be and the core was insued to me."

MRS. HARRIMAN VISITS

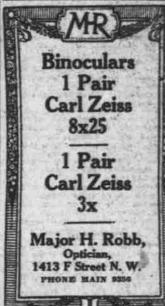
BRITISH WOMEN AT WORK

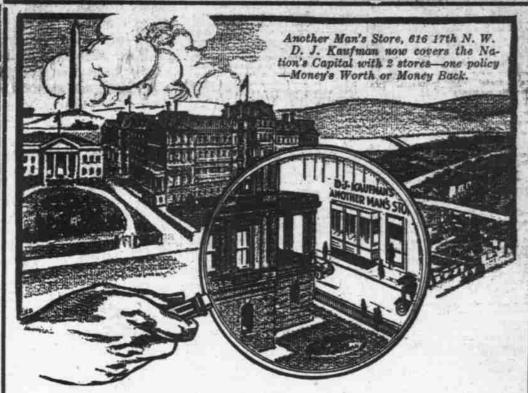
Harriman, of New York, started a special tour of British munitions factories today, particularly to see ho

U. S. GIRL SLAVE OF GERMAN FIENDS IN DETENTION CAMP

AYER. Mass., Nov. 25.—How an American girl, nineteen years old, was lured into Germany, is held there and forced to suffer all sorts of indignities is told in a letter smuggled through to her brother, now a private in the United States army.

With the consent of the authorities at Camp Devens the letter is made public. The brother in of German descent and came from New Hampshire. Before the war his mother went to Germany on a visit to her parents and has remained there. Six months ago, he says, his sister received an official-looking letter stating her mother was ill and wanted her.





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